

## J23101+GFP Construct

NNNNNNNNNNNTNCTATNNNATAGGCGTATCACGAGGCAGAATTTTCAGATAAAAAAATCCTTAGCTTTTCGC  
TAAGGAT  
GATTTCTGGAATTCGCGGCCGCTTCTAGAGTTTACAGCTAGCTCANTCCTAGGTATTATGCTAGCTACTAGAG  
AAAGAGG  
AGAAATACTAGATGCGTAAAGGAGAAGAACTTTTTCACTGGAGTTGTCCCAATTCTTGTTGAATTANATGGTGA  
TGTTAAT  
GGGCACAAATTTTCTGTCAGTGGAGAGGGTGAAGGTGATGCAACATACGGAAAACCTTACCCTTAAATTTATTT  
GCACTAC  
TGGAAAACTACCTGTTCCATGGCCAACACTTGTCACTACTTTTCGGTTATGGTGTTCAATGCTTTGCGAGATAC  
CCAGATC  
ATATGAAACAGCATGACTTTTTCAAGAGTGCCATGCCCAGGTTATGTACAGGAAAGAACTATATTTTTCAA  
AGATGAC  
GGGAACACAAGACACGTGCTGAAGTCAAGTTTGAAGGTGATACCCCTGTTAATAGAATCGAGTTAAAAGGTA  
TTGATTT  
TAAAGAAGATGGAAACATTCTTGGACACAAATTGGAATACAACATAACTCACACAATGTATACATCATGGCA  
GACAAAC  
AAAAGAATGGAATCAAAGTTAACTTCNAAATTAGACACAACATTGAAGATGGANGCGTTCAACTAGCAGACCA  
TTATCAC  
CAAANTACTCCAATTGGCGATGGCCTNGTCCTTTNACCAAACANNNNNNACCTGTCCNCCNNATCTGCNCTTT  
CNAAAAA  
TCCAAANNANANNANNCNNNATGTNCNTTCTTGNNTNTGNACGACTGCNGNNTTANNNNGGCTCGNATGACN  
CNNGCAG  
NATCGNANNNNGAGGCAGNNATNAGNNNCTCNATGNNNNNNNAANNCATGNCNNNCNCATANAAGCANGTN

NNNNNNNNNNNNACGACCGAGCGCAGCGAGTCAGTGAGCGAGGAAGCCTGCATCGGCCGCTACTATCTTTTCG  
GTTTTNA  
AGAGNCCGGGCGAGGGGGAGACACCGTGACTCTTTTTGCCAGACTGCACCGACCGCTACTAAAAAAGCAACG  
GACTCCT  
CATTCCACTGATCCTTTTCGTTTTATGATTTGCNTTATCTCTNATTCTGCCTCGNGATANTTCATCCTTGCCAT  
GTTAATG  
TNATGATAATTGTGGTTTCTTANAAAGGACGNGGTGNTTCTCTTTAAATGGGNATCTAACCCCTAGTTGNAT  
AGTGTGC  
NCAATACATTGGTTGNTGGGTCCGCTCATGAGGACCATCACCCCTGATNANTGCTTTGTTGATATTGGTCTGCG  
AANAGAA  
TGATTATTCCTTCTTTGTTNGTCGCCCTTATTCCTTTTTTTTGATTCTTTCTTTCNNGTGTTTGCTCACCCNN  
ANNCNT  
GGTGAAANTANAAGATGCTTCNNATTTGTGGGGTGCAATGTNGGGTACATCTTACTGGATCACCTTTTAACT  
AANATCC  
TTGANAGTTTNCGCCNCCTTAACGTTTNCCTTCGATGAGTGCTTTGAANTTCCGCNATNTNNNACGAAATTA  
TNTCTTA  
CTGGCACCTGACCTTAGCNCCTGGNACTCCNGATACACTANTGTCGTAATGNNTNANNTGANTATCNCCCANN  
NCANNNA  
ANCNTCTTACNGATGGCATGACANTNAGANNNTATGCAACGCGNACNTATCCATGANTGATAACACNGTTNA  
GGACATA  
CTTCNGACANGTATCATCNGANTCACCGANCCACNGATNNATTGCNCGNGCTGGTTGATCNTGCNATTTNNC  
TNGATCG  
NNNNNGANNNNANCTGAATGAAACCNTCTTCTNCTNNNAGCNTGANNCCCTTCTNCNCTTTCNNNNGGANNTA  
NCNTAGC  
NCNACNACTGANTGNNTANTACTTCTNCNAGCTNCCCNGCANNNCTNAANATNANTCNNNNNGGNNNGNNNN  
NAAAGAT  
TNCNNNNNNNNCTNNNNNNNNCCTNCGTCCCTGTNNNCGCCTGACTTGNTATANNNGNNANAGNNNNNTNNNA  
NNNNGGT  
NANCNTNGGANNNCNNNGATCNNTNGNAGNNNNNTNNGGNNNNNNNNNGNAGNCCCNCCNTTANNCNNNN  
NNNNNN  
NCNANCNGNNNNNNNNNNNNNGNNANNTTNTNNNNNANCNANNNNNTNNNNNNNNNTNNNNNNNNNTNNCNCT  
NNNNNA  
NNNANNTNTNGNNNNNANTNTNNCNNNNNNNNNNNN

## J23117+GFP Construct:

NNNNNNNNNNNTNCNTANNNNNNAGGCGTATCACGAGGCAGAATTTTCAGATAAAAAAATCCTTAGCTTTTCGC  
TAAGGAT  
GATTTCTGGAATTCGCGGCCGCTTCTAGAGTTGACAGCTAGCTCAGTCCTAGGGATTGTGCTAGCTACTAGAG  
AAAGAGG  
AGAAATACTAGATGCGTAAAGGAGAAGAACTTTTCACTGGAGTTGTCCCAATTCTTGTTGAATTAGATGGTGA  
TGTTAAT  
GGGCACAAATTTTCTGTCACTGGAGAGGGTGAAGGTGATGCAACATACGGAAAACCTTACCCTTAAATTTATTT  
GCACTAC  
TGGAAAACTACCTGTTCCATGGCCAACACTTGTCACTACTTTTCGGTTATGGTGTTCAATGCTTTGCGAGATAC  
CCAGATC  
ATATGAAACAGCATGACTTTTTCAAGAGTGCCATGCCCAGGTTATGTACAGGAAAGAACTATATTTTTCAA  
AGATGAC  
GGGAACACAAGACACGTGCTGAAGTCAAGTTTGAAGGTGATACCTTGTTAATAGAATCGAGTTAAAAGGTA  
TTGATTT  
TAAAGAAGATGGAAACATTCTTGGACACAAATTGGAATACAACATAACTCACACAATGTATACATCATGGCA  
GACAAAC  
AAAAGAATGGAATCAAAGTTAACTTCAAAATTAGACACAACATTGAAGATGGAAGCGTTCAACTAGCAGACCA  
TTATCAA  
CAAATACTCCAATTGGCGATGGCCCTGTCCTTTTACCAGACAACCATTACCTGTCCACACAATCTGCCCTTT  
CGAAAGA  
TCCCAACGAAAAGAGAGACCACATGGTCCTTCTTGAGTTTGTAACAGCTGCTGGGATTACACATGGCATGGAT  
GAACTAT  
ACAAATAATAATACTAGAGCCAGGCATCAAATAAAACGAAAGGCTCAGTCGAAAGACTGGGCCTTTCGTTTTA  
TCTGTTG  
TTNGTCGGTGAACGCTCTCTACTANAGTCACACTGGCTCACNNTCGGGTGGNNCTTTCTGCGTTTATATACTA  
GTANCGG  
CCGCTGCAGTCCNGCAAAAANGGCANGNNGNCACNNCCNNNCCTTTTCNNNAAACNAAAANNTTANNNNNNT  
ATGCAGC  
TNCCTCNNTNCTGANNCNCNGNNNTNNNNNNNNGNNNNGNNNNNNNGNNNTCANNTCNNNNNANGNGNANTA  
NGNTANN  
CNNNNNNNNNNNNNNNCNNGNNNNANNNNNNNNNNNAANNGNCNNGNNNNNNNNNNNCNNNGNANNNNN

NNNNNNNNNNNTNCNTANNNNNNAGGCGTATCACGAGGCAGAATTTTCAGATAAAAAAATCCTTAGCTTTTCGC  
TAAGGAT  
GATTTCTGGAATTCGCGGCCGCTTCTAGAGTTGACAGCTAGCTCAGTCCTAGGGATTGTGCTAGCTACTAGAG  
AAAGAGG  
AGAAATACTAGATGCGTAAAGGAGAAGAACTTTTCACTGGAGTTGTCCCAATTCTTGTTGAATTAGATGGTGA  
TGTTAAT  
GGGCACAAATTTTCTGTCACTGGAGAGGGTGAAGGTGATGCAACATACGGAAAACCTTACCCTTAAATTTATTT  
GCACTAC  
TGGAAAACTACCTGTTCCATGGCCAACACTTGTCACTACTTTTCGGTTATGGTGTTCAATGCTTTGCGAGATAC  
CCAGATC  
ATATGAAACAGCATGACTTTTTCAAGAGTGCCATGCCCAGGTTATGTACAGGAAAGAACTATATTTTTCAA  
AGATGAC  
GGGAACACAAGACACGTGCTGAAGTCAAGTTTGAAGGTGATACCTTGTTAATAGAATCGAGTTAAAAGGTA  
TTGATTT  
TAAAGAAGATGGAAACATTCTTGGACACAAATTGGAATACAACATAACTCACACAATGTATACATCATGGCA  
GACAAAC  
AAAAGAATGGAATCAAAGTTAACTTCAAAATTAGACACAACATTGAAGATGGAAGCGTTCAACTAGCAGACCA  
TTATCAA  
CAAATACTCCAATTGGCGATGGCCCTGTCCTTTTACCAGACAACCATTACCTGTCCACACAATCTGCCCTTT  
CGAAAGA  
TCCCAACGAAAAGAGAGACCACATGGTCCTTCTTGAGTTTGTAACAGCTGCTGGGATTACACATGGCATGGAT  
GAACTAT  
ACAAATAATAATACTAGAGCCAGGCATCAAATAAAACGAAAGGCTCAGTCGAAAGACTGGGCCTTTCGTTTTA  
TCTGTTG  
TTNGTCGGTGAACGCTCTCTACTANAGTCACACTGGCTCACNNTCGGGTGGNNCTTTCTGCGTTTATATACTA  
GTANCGG

CCGCTGCAGTCCNGCAAAAANGGCANGNNGNCACNNCCNNNCCTTTTCNNNAAACNAAAAANNTTANNNNNNT  
ATGCAGC  
TNCCTCNNTNCTGANNCCNGNNTNNNNNNNGNNNGNNNNNNNGNNNTCANNTCNNNNNANGNGNANTA  
NGNTANN  
CNNNNNNNNNNNNNNNCNNGNNNNANNNNNNNNNNAANNGNCNNGNNNNNNNNNNCNNGNANNNNN

J23106+GFP Construct:

NNNNNNNNNNNNNNNNNNATNNNNNNAGGCGTATCACGAGGCAGAATTTTCAGATAAAAAAATCCTTAGCTT  
TCGCTAA  
GGATGATTTCTGGAATTCGCGGCCGCTTCTAGAGTTTACGGCTAGCTCAGTCCTAGGTATAGTGCTAGCTACT  
AGAGAAA  
GAGGAGAAATACTAGATGCGTAAAGGAGAAGAACTTTTCACTGGAGTTGTCCCAATTCTTGTTGAATTAGATG  
GTGATGT  
TAATGGGCACAAATTTTCTGTCACTGGAGAGGGTGAAGGTGATGCAACATACGGAAAACCTTACCCTTAAATTT  
ATTTGCA  
CTACTGGAAAACCTGTTCCATGGCCAACACTTGTCACTACTTTGCGTTATGGTGTTCAATGCTTTGCGAG  
ATACCCA  
GATCATATGAAACAGCATGACTTTTTCAAGAGTGCCATGCCCCGAAGGTTATGTACAGGAAAGAACTATATTTT  
TCAAAGA  
TGACGGGAACTACAAGACACGTGCTGAAGTCAAGTTTGAAGGTGATACCCTTGTTAATAGAATCGAGTTAAAA  
GGTATTG  
ATTTTAAAGAAGATGGAAACATTCTTGGACACAAATTGGAATACAACATAACTCACACAATGTATACATCAT  
GGCAGAC  
AAACAAAAGAATGGAATCAAAGTTAACTTCAAATTAGACACAACATTGAAGATGGAAGCGTTCACTAGCAG  
ACCATTA  
TCAACAAAATACTCCAATTGGCGATGGCCCTGTCCTTTTACCAGACAACCATTACCTGTCCACACAATCTGCC  
CTTTCTGA  
AAGATCCCAACGAAAAGAGAGACCACATGGTCCTTCTTGAGTTTGTAAACAGCTGCTGGGATTACACATGGCAT  
GGNTGAA  
CTATACAAATAATAACTAGAGCCAGGCATCAAATAAAACGAAAGGCTCAGTCNAAAGACTGGGCCTTTTCGT  
TTTATCT  
GTTGTTTGTGCGGTGAACGCTCTCTACTANAGTCACACTGGCTCACCNCTCNGNTGGGCCTTTCTGCGTTTANAT  
ACTANTA  
NCNGCCGCTNCAGTCCNGCAAAAAGGGNNNGNNGTCAGCACCCNNNCCTTTTTTCNTTAAANNNNANANNNN  
NNANTTN  
CGNGTTNNNCANGNNTNCNTNNNNNNNNNNNNNNNNNNNNNNNTNNNNNNNGNNNNNGNCGANNNNNNNNG  
NTNNNTN  
ANNGNNNNNNNNCNGGNTNTNCNNANNNANNNNNNGGGANANGGNNNNNNNNANNNNANNN

NNNNNNNNNNNNNNNCGANGACCGAGCGCAGCGAGTCAGTGAGCGAGGAAGCCTGCATAACGCGAAGTAATCT  
TTTCGGT  
TTTAAAGAAAAAGGGCAGGGTGGTGACACCTTGCCCTTTTTTCCCGACTGCAGCGGCCGCTACTAGTATATA  
AACGCAG  
AAAGGCCCAACCGAAGGTGAGCCAGTGTGACTCTAGTAGAGAGCGTTCACCGACAAACAACAGATAAAACGAA  
AGGCCCA  
GTCTTTTCGACTGAGCCTTTTCGTTTTATTTGATGCCTGGCTCTAGTATTATTATTTGTATAGTTCATCCATGCC  
ATGTGTA  
ATCCCAGCAGCTGTTACAACTCAAGAAGGACCATGTGGTCTCTCTTTTCGTTGGGATCTTTCGAAAGGGCAG  
ATTGTGT  
GGACAGGTAATGGTTGTCTGGTAAAAGGACAGGGCCATCGCCAATTGGAGTATTTTGTTGATAATGGTCTGCT  
AGTTGAA  
CGCTTCCATCTTCAATGTTGTGTCTAATTTTGAAGTTAACTTTGATTCCATTCTTTTGTTTGTCTGCCATGAT  
GTATACA  
TTGTGTGAGTTATAGTTGTATTCCAATTTGTGTCCAAGAATGTTTCCATCTTCTTTAAAATCAATACCTTTTA  
ACTCGAT  
TCTATTAACAAGGGTATCACCTTCAAACCTTGACTTCAGCACGTGTCTGTAGTTCCCGTCATCTTTGAAAAAT  
ATAGTTC

TTTCCTGTACATAACCTTCGGGCATGGCACTCTTGAAAAAGTCATGCTGTTTCATATGATCTGGGTATCTCGC  
AAAGCAT  
TGAACACCATAACCGAAAGTAGTGACAAGTGTTGGCCATGGAACAGGTAGTTTTCCAGTAGTGCAAATAAATT  
TAAGGGT  
AAGTTTTCCGTATGTTGCATCACCTTCACCCTCTCCACTGACAGAAAATTTGTGCCCATTAACATCACCATCT  
AATTCAA  
CAAGAATTGGGACAACCTCCAGTGAAAAGTTCTTCTCCTTTACGCATCTAGTATTTNNNCNNCTTTCTCTAGTA  
GCTAGCA  
CTATACCTAGGACTGAGCTAGCCGTAAANTCTANNNGNNGAATTCCANAAATCATNCNTANCGAAAGCTN  
NNTTTTT  
TTTTNNNNNTNANTNNNNCCTNNNGNNGNNGNNTTTTTNNNNNNNNNNCANGANANNNNNNNTNNANNNT  
CNGNNGN  
NNCTCNNNNNGATCGGGNACNNNNNNNNNCCNANNTNNNNNNNNNNNNNNNN